

WHAT IS CLAIMED IS:

1. A manufacturing method of a structure body, comprising:

under a condition where a face of one side of respective first and second plates at an abutted portion of an end portion of a first plate and an end portion of a second plate is supported by a backing plate, inserting a rotary tool into said abutted portion from only a face of another side opposite said one side, said abutted portion including a raised portion extending toward said rotary tool, said rotary tool being inserted into said raised portion,

carrying out a friction stir welding to said abutted portion, said friction stir welding being carried out substantially to form a flat surface at said one side of said abutted portion, and

manufacturing a structure by positioning said flat surface of one side which has been obtained according to the friction stir welding at an outer face of the structure body.

2. A manufacturing method of a structure body according to claim 1, wherein the friction stir welding is carried out by mounting said face of said one side of said abutted portion on a substantially flat bed.

3. A manufacturing method of a structure body according to claim 1, wherein:

to a respective end portion of each of said first plate and an end portion of said second plate of said abutted portion, providing a raised portion which projects to said another side, and abutting the raised portions, and

under a condition in which said face of said one side of said abutted portion is supported by the backing plate, carrying out the friction stir welding to said abutted portion using a rotary tool which is inserted into said raised portions.

4. A manufacturing method of a vehicle, comprising:

under a condition where respective faces of one side of first and second plates of an abutted portion of an end portion of the first plate and an end portion of the second plate are supported by a backing plate, inserting a rotary tool into said abutted portion from only a face of another side of the first and second plates opposite the one side, said abutted portion including a raised portion extending toward said rotary tool, said rotary tool being inserted into said raised portion,

carrying out a friction stir welding to said abutted portion, so as to form a substantially flat surface at said one side of said abutted portion, and

manufacturing the vehicle by positioning said face of said one side of a structure which has been obtained according to the friction stir welding at an outer face of the vehicle.

5. A manufacturing method of a vehicle according to claim 4, wherein the friction stir welding is carried out by mounting said surface of said one side of said abutted portion on a substantially flat bed.

6. A manufacturing method of a vehicle according to claim 4,
wherein:

each of a respective end portion of said first plate and a respective end portion of said second plate of said abutted portion has a raised portion which projects to said another side, and said raised portions are abutted at said abutted portion, and

under a condition in which said face of said one side of said abutted portion is supported by the backing plate, carrying out the friction stir welding to said abutted portion using a rotary tool which is inserted into said raised portions.

7. A structure body comprising:

a first plate and a second plate welded to each other from one side of a thickness direction of said first plate and said second plate by a friction stir welding,

a face of a welding portion formed by the friction stir welding, of an opposite side, to said one side, of said first plate and said second plate, being substantially flat, and

said face of said opposite side being an outer face of the structure body.

8. A vehicle comprising:

a first plate and a second plate welded together by a friction stir welding from one side of a thickness direction of said first plate and said second plate,

a face of a welding portion of the friction stir welding of an opposite side, to said one side, of said first plate and said second plate being substantially flat, and

said face of said opposite side being an outer face of the vehicle.